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For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(54) Title: NUCLEOTIDE SEQUENCES ENCODING CRY1BB PROTEINS FOR ENHANCED EXPRESSION IN PLANTS

(57) Abstract: The present invention describes compositions and methods that are useful in the control of lepidopteran insect pests, and more particularly describes nucleotide sequences for use in plants that encode full-length and truncated insecticidal toxins, as well as chimeric toxins. The nucleotide sequences of the present invention exhibit modifications that, when compared to the native sequences obtained from *Bacillus thuringiensis* species, make them particularly useful for enhanced, improved, and or optimized expression in monocot and dicot plant species. Using methods well known to those skilled in the art, the nucleotide sequences described herein can be used to transform plant cells and plant tissue in order to produce transgenic plants that express the encoded proteins, therefore conferring upon the transgenic plants the ability to resist insect infestation.

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# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/26510

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C12N 15/32, 15/82, 5/04; A01H 5/00, 5/10, 1/00; C07K 14/325  
US CL : 536/23.71, 102; 800/302, 279, 265; 435/418; 530/350; 508/491

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## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
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## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,322,687 A (DONOVAN et al) 21 June 1994 (21.06.1994), column 9, line 54, to column 10, line 9; column 11, lines 1-12; column 13, line 48, to column 16, line 39.	7 and 14

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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**Continuation of B. FIELDS SEARCHED Item 3:**

Sequence databases

Agricola, Biosis Caplus, Caba, USPat, EPO, JPO, Derwent, Pg-Pub

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